

SUCO Product Overview

Pressure Monitoring & Transmission Technology



Suco

an overview

Mechanical Pressure Switches

Electronic Pressure Switches

Pressure Transmitters

Electronic Pressure Sensors

Transmission Technology



Mechanical Pressure Switches

Pressure Switches with integrated connectors

- NO / NC / Changeover
- IP67 (up to IP6K9K)
- Robust, compact design
- Various connector versions available
- Highest efficiency by plug & control connectors
- Switching point can be set on site



Pressure Switches hex 24

- NO / NC, max. 42 V
- Variable pressure ranges between 0.1 - 150 bar
- Overpressure safety up to 600 bar
- Cost-effective solution in many different variants
- Robust, compact design
- Set point adjustable on site



Pressure switches hex 27

- Proven pressure switches with changeover contacts up to 250 V
- Variable pressure ranges between 0.3 - 400 bar
- Adjustable hysteresis
- High overpressure safety
- Numerous versions in different housing materials available



Ready Wired Pressure Switches

Nearly all our hex 24 and hex 27 switches can be customized as ready wired switches to come with different cable lengths and connectors to suit your specific needs. Protection class IP67 / IP6K9K



04XX Pressure switches PLUS with intelligent, supplementary functions

- Overvoltage protection prolonging the contact service life
- Temperature-controlled switching function (e.g. cold start)
- NAMUR Diagnostic function (fail-safe) with short-circuit and cable break detection
- In-rush current limitation (overload limitation)
- Display of the switching status with LED
- Active reduction of EMC emissions
- Overload protection with self-resetting electrical fuse



Pressure Switches A/F 30

- Our longest established robust pressure switches
- Flange or thread connection for easy installation
- High precision in setpoint ranges up to 400 bar



ATEX Pressure Switches

- Intrinsically safe pressure switches for applications in ATEX zones:
 - 1 (Gas- type 0165)
 - 22 (Dust- type 034X)
- Set point adjustable from 0.3 - 1.5 bar to 100 - 400 bar even whilst in operation
- Excellent price/performance ratio



Mechanical Pressure Switches

Vacuum Pressure Switches

- Easy to adjust vacuum switches with outstanding overpressure safety
- Available as NO, NC or changeover contacts
- Set point adjustable from 100 - 950 mbar (vacuum)
- Very long service life



Accessories

- Protective caps, socket devices and thread / aluminium adapters
- Ready wired mating connectors
- Other options and customised versions available on request



Pressure Transmitters

060X

Performance series

- Very attractively priced transmitters for pressure ranges up to 250 bar
- 2x overpressure protection
- Small, compact transmitters (hex 24)
- Ceramic sensor in thick film technology
- High level of adaptability to your requirements (customized solutions)
- Housing made of stainless steel (1.4305), others on request



06XX

in 303 Stainless steel

- Pressure transmitter for vacuum and pressure ranges up to 100 bar
- Oil filled measuring cell with piezo-resistive sensor
- Wetted parts in stainless steel
- Ratio metric, current and voltage outputs
- Especially suitable for oxygen



06XX

in 316L Stainless steel

- Technical data as version 06XX in 303, but wetted parts and housing made of 316L stainless steel
- Especially for sea water, chemical and medical applications etc.
- Different sealing materials enable applications within a broad temperature range with diverse media



07XX

High-Performance series

- Pressure ranges up to 600 bar
- Outstanding accuracy due to Silicon-on-Sapphire technology
- 4x overpressure safety
- Excellent temperature and long term stability
- Ratiometric, current and voltage outputs



Transmitter Display STD

- Quick & easy plug-on display
- 4 – 20 mA current output, switching output option available
- Loop powered - No additional voltage supply required
- Connection to DIN EN 175301-803-A (DIN 43650)



Electronic Pressure Switches

050X / 051X Performance series

- Small, compact & very attractively priced electronic pressure switches for pressure ranges up to 250 bar
- Particularly for high volume deployment
- High level of adaptability to your requirements (custom solutions)
- 2x overpressure protection
- Hysteresis adjustable between 3 % – 98 % set at factory
- Ceramic sensor in thick film technology
- Housing made of stainless steel (1.4305), others on request



0520 A/F 30

- Precise electronic pressure switch for pressure ranges up to 250 bar
- Ceramic measuring cell
- Hysteresis adjustable between 2 % – 95 % set at factory
- Adjustable by user without programming requirements
- Very high switching currents (up to 1.4 A)



0570 Menu-controlled EPS

- Electronic pressure switch with programming menu and display
- Ceramic measuring cell for pressure ranges up to 400 bar
- Two adjustable set points plus 4 – 20 mA analogue output
- Max pressure memory
- Code protected key pad lock etc.
- Numerous programming functions



053X High-Performance series

- Outstanding accuracy due to Silicon-on-Sapphire technology
- Pressure ranges up to 600 bar possible
- One output, factory-set switching points
- 4x overpressure safety
- Excellent temperature and long term stability



054X High-Performance series

- Outstanding accuracy due to Silicon-on-Sapphire sensor technology (SoS)
- Pressure ranges up to 600 bar possible
- Two output, factory-set switching points
- 4x overpressure safety
- Excellent temperature and long term stability



PPD05 Programming device

- Suitable for switches of the SUCO Performance series 050X and 051X
- Easy adjustment of switching point & switch delay time via software
- Enables hysteresis and window function
- Basic set with M12 connector
- System requirements: min. Win Vista



Accessories

- Protective caps, socket devices and thread adapters
- Ready wired mating connectors
- Developed and aligned for your SUCO products
- Other options and customised versions available on request



Electronic Pressure Sensors

HI20XX High-Precision Pressure Transducer

- Accuracy $\pm 0.1\%$ of span BFSL
- With Silicon-on-Sapphire sensor technology (SoS)
- Pressure ranges from 0 – 500 mbar to 0 – 1.500 bar
- Zero-Offset and full scale (FS) adjustable by customer
- Options include ATEX versions



HP10XX / HP11XX High Pressure Transmitter

- Temperature range up to $+125\text{ }^{\circ}\text{C}$
- With Silicon-on-Sapphire sensor technology (SoS)
- Pressure ranges up to 5.000 bar (others on request)
- Output signals: 10 mV/V, 0 - 5 V, 0 - 10 V or 4 - 20 mA
- Options include ATEX versions



LP10XX Low Pressure Transmitter

- Piezoresistive silicon sensor
- Pressure ranges from 0 – 50 mbar to 0 – 500 mbar
- For very low pressure ranges with highest accuracy
- Available in all typical output signals
- Zero-Offset and full scale (FS) adjustable by customer



PR320X Differential Pressure Transmitter

- PR3200 – Differential pressure from 0 - 500 mbar to 0 - 200 bar suitable for high line pressure
- Line pressure can be applied and measured from both sides
- PR3202 – Differential pressure from 0 - 5 mbar to 0 - 1.000 mbar for very low differential pressure



HI22XX / PR3860 High Temperature Pressure Transmitter

- Suitable for high temperature applications up to $+200\text{ }^{\circ}\text{C}$
- With Silicon-on-Sapphire sensor technology (SoS)
- Pressure ranges from 0 – 1.500 bar possible
- Excellent long-term stability
- Options include ATEX versions



PR3850 / PR3800 Flush Diaphragm Pressure Transmitter

- Thickfilm sensor technology
- Flush diaphragm available in stainless steel 316 or 316L
- Pressure ranges from 0 – 1.000 bar possible
- Easy clean flush membrane to prevent clogging
- Various connections available



PR34XX Submersible Pressure Transmitter

- Pressure ranges from 0 – 1 mWS to 0 – 500 mWS
- Slim design for borehole applications
- Stainless steel housing 316L
- Excellent media compatibility
- High strength moulded
- Options include ATEX versions
- DNV GL certification available



Genspec© Dynamic GD4200-USB USB Powered Pressure Transducer

- Pressure ranges from vacuum up to 5.000 bar
- With Silicon-on-Sapphire sensor technology (SoS)
- Sample rate up to 1.000 Hz
- Measurement & record of up to 16 pressure inputs at once.
- Auto detect and configuration
- Accuracy (NLHR) $\pm 0.15\%$ of span BFSL

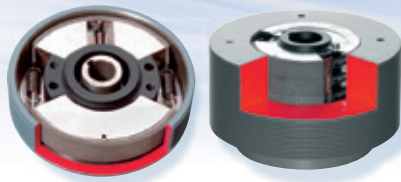


Transmission Technology

Centrifugal Brakes

SUCO centrifugal brakes automatically limit the maximum RPM of a shaft, so providing protection against over speed, without necessitating external controls. SUCO can provide, 'specials' based on their modular range of brakes. SUCO centrifugal brakes are very compact which facilitates inclusion in new transmission designs and, 'Retro fitting' (e.g. between motor and gearbox). They are almost maintenance free and can be sized to work as an emergency brake or for continuous use. (e.g. personnel descent control).

Torque:
0.5 – 2.000 Nm
Operating speed:
300 – 4.000 RPM



Electromagnetic Clutches and Brakes

Our know how and experience of more than 75 years, combined with our modern machining facilities allow us to make individually designed electromagnetic clutches and brakes, even in small quantities.

When combined with our centrifugal clutches we can provide unique solutions for special applications.

Torque:
1 – 280 Nm
Operating speed:
0 – 10.000 RPM
Power Supply:
6, 12, 24, 48, 190 VDC



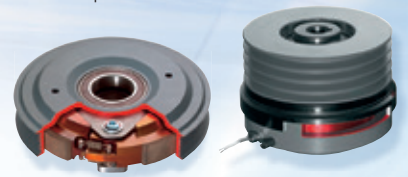
Centrifugal Clutches

SUCO Centrifugal Clutches allow a soft load free start from rest, automatically engaging as the speed increases.

SUCO manufacture four basic designs comprising: 2 shoe with servo engagement, 2 shoe pin drive, 3 shoe pin drive and 3 shoe with servo engagement and integral shock absorbing rubber bushes.

All SUCO clutches are almost service free but easy to overhaul when required.

Torque:
0.5 – 2.000 Nm
Operating speed:
300 – 4.000 RPM



Security Brake for Small Wind Turbines

We have developed a security brake especially for small wind turbines up to 30 kW. In the event of the system rotating too quickly, the brake brings the turbine smoothly to a stand still and automatically restarts after a rest period.

The system works independently, without external energy or signals. We can customise our product to suit your application to arrive at a safe and service free installation.

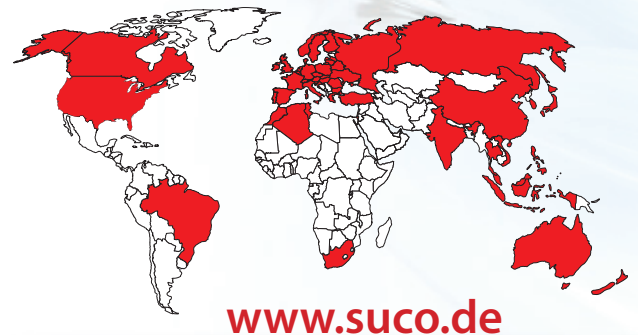
Alternatively we also offer versions with manual reset. This patented SUCO ZERO system can be applied to other applications such as working platforms and lifts.



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